

BRUHATH BANGALORE MAHANAGARA PALIKE

Rajarajeshwari Nagar Zone

O/o Executive Engineer(Ele), Rajarajeshwari nagar Zone, BBMP, Bangalore

Bill of Quantities (BOQ)

Memorandum Showing the Specifications, Quantities and Rates of items to be Executed

Name of the Work:- Providing LED street light fittings with connected accessories in ward no- 16, 17, 37 & releasing of existing sodium vapour lights from ward no- 16, 17, 37 & refixing at ward no 73 and 129 under RR Nagar Zone.

Tender Number: -BBMP/2021-22/EL/WORK_INDENT49808

Name of the Contractor: V ROHITH (KUMAR - ELECTRICALS)

SNo	Approved Qty	Item Name	Sanctioned Tender Rates in Rs			
			Unit	Rate in Figure	Rate in Words	Total Amount in Rs
1	315	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency> 130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Streetlight 70watts	No	7340.00	Rupees Seven Thousand Three Hundred and Forty Only	2312100.00
2	1155	LED Streetlight 90 Watts	No	9000.0	Rupees Nine Thousand Only	10395000.00
3	630	LED Streetlight 120 Watts	No	9000.0	Rupees Nine Thousand Only	5670000.00

For KUMAR ELECTRICALS

[Signature]

Partner

[Signature]

Executive Engineer (Ele)
Rajarajeshwari Nagar Zone,
Bangalore Mahanagara Palike

SNo	Approved Qty	Item Name	Sanctioned Tender Rates in Rs			Total Amount in Rs
			Unit	Rate in Figure	Rate in Words	
4	163	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Floodlight 180W	Each	17800.00	Rupees Seventeen Thousand Eight Hundred Only	2901400.00
5	163	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	180.0	Rupees One Hundred and Eighty Only	29340.00
6	2400	Supplying and Fixing.....mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts, nuts and wiring using suitable capacity wires. Using 32mm dia G.I.Pipe	Each	1065.00	Rupees One Thousand and Sixty Five Only	2556000.00

For KUMAR ELECTRICALS

Partner

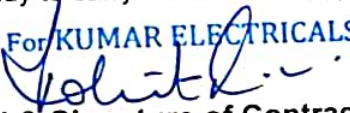
Executive Engineer (Elec)
Rajarajeshwari Nagar Zone,
Bangalore Mahanagara Palika

Sl. No.	Approved Qty	Item Name	Sanctioned Tender Rates in Rs			
			Unit	Rate in Figure	Rate in Words	Total Amount in Rs
7	80	Fabricating, supplying and erecting swaged tubular pole of height ... Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x 125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch. The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 4.1.1) 9Mt (5Mt Hb, 165.1mm dia 4.85mm thick x2M Hm, 139.7mmdia 4.50mm thick x 2M Ht, 114.3mm dia 3.65mm thick) as per IS 410 SP 32	Each	14400.0	Rupees Fourteen Thousand Four Hundred Only	1152000.00
8	60	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories. Single bracket 1.5 Mtr. Length	Each	1350.0	Rupees One Thousand Three Hundred and Fifty Only	81000.00
9	20	Double bracket 2x1.5 Mtr length	Each	1980.0	Rupees One Thousand Nine Hundred and Eighty Only	39600.00
10	800	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring. 4sq mm	Mtr.	18.0	Rupees Eighteen Only	14400.00
11	840	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975, 5) 3.5 core 25 sqmm	Mtr	216.0	Rupees Two Hundred and Sixteen Only	181440.00
12	200	4 core 16 sqmm	Mtr	180.0	Rupees One Hundred and Eighty Only	36000.00
13	840	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. On wall /Structure 6.5.2) 25 sqmm to 75 sqmm	Mtr	18.0	Rupees Eighteen Only	15120.00
14	200	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct. 6 sqmm to 16 sqmm	Mtr	18.0	Rupees Eighteen Only	3600.00
15	200	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. In soil (hard)	Mtr	108.0	Rupees One Hundred and Eight Only	21600.00

SNo	Approved Qty	Item Name	Sanctioned Tender Rates in Rs			
			Unit	Rate in Figure	Rate in Words	Total Amount in Rs
37	2027	Releasing and refixing of sodium vapour/ metal halide/ LED street light/ Flood light fittings over the existing pole/ wall/ ceiling including clamps, nuts and wiring using suitable capacity wires	Each	45.0	Rupees Forty Five Only	91215.00
		Total				29914443.00
		GST Applicable @12% on Item No 01 To 25				3393989.00
		Total Amount(Including GST)				33308432.00
		Tender premium				8.57% Above

Certificate:-

- I agree to Execute this work at the Rates mentioned above in the Schedule-B/BOQ.
- I am ready to carry out the work as per the directions of Engineer-in-Charge of Work.
- I am ready to carry out the work as per the tender terms and conditions.

For **KUMAR ELECTRICALS**

Seal & Signature of Contractor
 Partner


Executive Engineer(Ele),
Bruhat Bangalore Mahanagara Palike,
RR Nagar Zone